

## SEQUENCE LISTING

<110> Bayer Pharmaceuticals Corporation  
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 Lumb, Kevin  
 Buckholz, Thomas  
 Salhanick, Arthur

<120> PITUITARY ADENYLATE CYCLASE ACTIVATING PEPTIDE (PACAP) RECEPTOR  
 (VPAC2) AGONISTS AND THEIR PHARMACOLOGICAL METHODS OF USE

<130> 5189

<150> US 60/539,550  
 <151> 2004-01-27

<150> US 60/566,499  
 <151> 2004-04-29

<160> 155

<170> PatentIn version 3.3

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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ala  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Lys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Leu  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Met  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Pro  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ser  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Thr  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Val  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Trp  
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Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Arg Ile  
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Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Gln Arg Ile  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
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Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Gln Gly Gly Thr  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
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Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr  
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Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Gln Lys Arg Tyr  
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Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
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Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
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Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
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Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
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Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Lys Arg  
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&lt;223&gt; ACETYLTATION

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His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Gln Lys Arg  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Gln Lys Arg  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ala  
20 25 30

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<222> (1)..(30)  
<223> ACETYLTATION

<400> 59

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ile  
20 25 30

<210> 60  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
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<222> (1)..(30)  
<223> ACETYLTATION

<400> 60

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Lys  
20 25 30

<210> 61  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLTATION

<400> 61

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Leu  
20 25 30

<210> 62  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>

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 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 62

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Met  
 20 25 30

<210> 63  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 63

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Pro  
 20 25 30

<210> 64  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 64

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Gln  
 20 25 30

<210> 65  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 65

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Ser  
 20 25 30

<210> 66  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 66

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Thr  
 20 25 30

<210> 67  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 67

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Val  
 20 25 30

<210> 68  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
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 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 68

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Trp  
 20 25 30

<210> 69  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLTATION

<400> 69

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Tyr  
20 25 30

<210> 70  
<211> 30  
<212> PRT  
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<220>  
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<222> (1)..(30)  
<223> ACETYLTATION

<400> 70

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 71  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLTATION

<400> 71

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
20 25 30

<210> 72  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 72

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile  
 20 25 30

<210> 73  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 73

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Arg Ile  
 20 25 30

<210> 74  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 74

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Gln Arg Ile  
 20 25 30

<210> 75  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(31)  
 <223> ACETYLTATION

&lt;400&gt; 75

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
 20 25 30

&lt;210&gt; 76

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)..(31)

&lt;223&gt; ACETYLTATION

&lt;400&gt; 76

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
 20 25 30

&lt;210&gt; 77

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)..(29)

&lt;223&gt; ACETYLTATION

&lt;400&gt; 77

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys  
 20 25

&lt;210&gt; 78

&lt;211&gt; 31

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)..(31)

&lt;223&gt; ACETYLTATION

&lt;400&gt; 78

His Thr Glu Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
                   20                  25                  30

<210> 79  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(31)  
 <223> ACETYLTATION

<400> 79

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
   1                  5                  10                  15

Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Asn Gly Gly Thr  
                   20                  25                  30

<210> 80  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 80

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
   1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
                   20                  25                  30

<210> 81  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(31)  
 <223> ACETYLTATION

<400> 81

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
   1                  5                  10                  15

Leu Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Asn Lys Arg Tyr  
                   20                  25                  30

<210> 82

<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(31)  
<223> ACETYLTATION

<400> 82

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Thr Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 83  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(31)  
<223> ACETYLTATION

<400> 83

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala His Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 84  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(31)  
<223> ACETYLTATION

<400> 84

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys His Tyr Leu Gln Ser Ile Lys Asn Lys Arg Tyr  
20 25 30

<210> 85  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>

<221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 85

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
 20 25 30

<210> 86  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 86

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
 20 25 30

<210> 87  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 87

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Arg Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
 20 25 30

<210> 88  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 88

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Arg  
20 25 30

<210> 89  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLATION

<400> 89

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Asn Lys Arg  
20 25 30

<210> 90  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLATION

<400> 90

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Gln Asn Lys Arg  
20 25 30

<210> 91  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLATION

<400> 91

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Asn Lys Arg  
20 25 30

<210> 92  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 92

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Arg  
 20 25 30

<210> 93  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 93

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ala  
 20 25 30

<210> 94  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 94

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Phe  
 20 25 30

<210> 95  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLTATION

<400> 95

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys His  
20 25 30

<210> 96  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLTATION

<400> 96

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ile  
20 25 30

<210> 97  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLTATION

<400> 97

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Lys  
20 25 30

<210> 98  
<211> 30  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MOD\_RES  
<222> (1)..(30)  
<223> ACETYLTATION

&lt;400&gt; 98

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Leu  
 20 25 30

&lt;210&gt; 99

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)..(30)

&lt;223&gt; ACETYLTATION

&lt;400&gt; 99

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Met  
 20 25 30

&lt;210&gt; 100

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)..(30)

&lt;223&gt; ACETYLTATION

&lt;400&gt; 100

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Pro  
 20 25 30

&lt;210&gt; 101

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; MOD\_RES

&lt;222&gt; (1)..(30)

&lt;223&gt; ACETYLTATION

&lt;400&gt; 101

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Gln  
                   20                  25                  30

<210> 102  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 102

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Ser  
                   20                  25                  30

<210> 103  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 103

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Thr  
                   20                  25                  30

<210> 104  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 104

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1                  5                  10                  15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Val  
                   20                  25                  30

<210> 105

<211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 105

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Trp  
 20 25 30

<210> 106  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 106

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Asn Lys Tyr  
 20 25 30

<210> 107  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 107

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile  
 20 25 30

<210> 108  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 108

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile  
 20 25 30

<210> 109  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 109

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Lys Asn Arg Ile  
 20 25 30

<210> 110  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 110

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Asn Arg Ile  
 20 25 30

<210> 111  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MOD\_RES  
 <222> (1)..(30)  
 <223> ACETYLTATION

<400> 111

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Asn Arg Ile  
 20 25 30

<210> 112  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(32)  
 <223> Cysteine at position 32 is PEGylated.

<220>  
 <221> MOD\_RES  
 <222> (1)..(32)  
 <223> ACETYLATION

<400> 112

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys  
 20 25 30

<210> 113  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(32)  
 <223> Cysteine at position 32 is PEGylated.

<220>  
 <221> MOD\_RES  
 <222> (1)..(32)  
 <223> ACETYLATION

<400> 113

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
 1 5 10 15

Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys  
 20 25 30

<210> 114  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(30)

<223> Cysteine at position 30 is PEGylated.

<220>

<221> MOD\_RES

<222> (1)..(30)

<223> ACETYLATION

<400> 114

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Cys  
20 25 30

<210> 115

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(32)

<223> Cysteine at position 32 is PEGylated.

<220>

<221> MOD\_RES

<222> (1)..(32)

<223> ACETYLATION

<400> 115

His Thr Glu Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys  
20 25 30

<210> 116

<211> 32

<212> PRT

<213> Homo sapiens

<220>

<221> MISC\_FEATURE

<222> (1)..(32)

<223> Cysteine at position 32 is PEGylated.

<220>

<221> MOD\_RES

<222> (1)..(32)

<223> ACETYLATION

<400> 116

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Leu Ala Val Lys Lys Tyr Leu Gln Asp Ile Lys Gln Gly Gly Thr Cys  
20 25 30

<210> 117  
<211> 31  
<212> PRT  
<213> Homo sapiens

<220>  
<221> MISC\_FEATURE  
<222> (1)..(31)  
<223> Cysteine at position 31 is PEGylated.

<220>  
<221> MOD\_RES  
<222> (1)..(31)  
<223> ACETYLATION

<400> 117

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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys  
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Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Arg Gln Lys Arg Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys His Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Leu Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Met Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Gln Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Thr Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Val Cys  
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Met Ala Gly Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile Cys  
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Met Ala Lys Lys Lys Tyr Leu Gln Ser Ile Lys Gln Arg Ile Cys  
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Met Ala Ala Lys Lys Tyr Leu Gln Ser Ile Pro Gln Arg Ile Cys  
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Met Ala Ser Lys Lys Tyr Leu Gln Ser Ile Arg Gln Arg Ile Cys  
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<400> 149

His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys  
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Gln Arg Val Lys Asn Lys  
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His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln  
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Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu  
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<400> 151

His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
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Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
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<400> 152

His Ser Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr  
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Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys  
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His Thr Asp Ala Val Phe Thr Asp Gln Tyr Thr Arg Leu Arg Lys Gln  
1 5 10 15

Val Ala Ala Lys Lys Tyr Leu Gln Ser Ile Lys Gln Lys Arg Tyr Cys  
20 25 30

VIII-3-2	<b>Declaration: Entitlement to claim priority</b> Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bis.1(a)(iii)) Name	in relation to this international application  BAYER PHARMACEUTICALS CORPORATION is entitled to claim priority of earlier application No. 60/566,499 by virtue of the following:
VIII-3-2(i v)		an assignment from CLAIRMONT, Kevin to BAYER PHARMACEUTICALS CORPORATION, dated 02 August 2004 (02.08.2004)
VIII-3-2(i v)		an assignment from LUMB, Kevin, J. to BAYER PHARMACEUTICALS CORPORATION, dated 03 August 2004 (03.08.2004)
VIII-3-2(i x)	This declaration is made for the purposes of:	all designations

VIII-2-1	<b>Declaration: Entitlement to apply for and be granted a patent</b> Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate: Name (LAST, First)	in relation to this international application  BAYER PHARMACEUTICALS CORPORATION is entitled to apply for and be granted a patent by virtue of the following:
VIII-2-1(i v)		an assignment from CLAIRMONT, Kevin to BAYER PHARMACEUTICALS CORPORATION, dated 21 January 2005 (21.01.2005)
VIII-2-1(i v)		an assignment from LUMB, Kevin, J. to BAYER PHARMACEUTICALS CORPORATION, dated 21 January 2005 (21.01.2005)
VIII-2-1(i v)		an assignment from BUCKHOLZ, Thomas to BAYER PHARMACEUTICALS CORPORATION, dated 21 January 2005 (21.01.2005)
VIII-2-1(i v)		an assignment from SALHANICK, Arthur, I. to BAYER PHARMACEUTICALS CORPORATION, dated 25 January 2005 (25.01.2005)
VIII-2-1(i x)	This declaration is made for the purposes of:	all designations except the designation of the United States of America